## Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

- 1. (currently amended) A method for denaturing or separating double-stranded hybridizing one or more nucleic acid molecules, said method comprising
  - i) contacting one or more double-stranded nucleic acid molecules with a denaturant selected from the group consisting of
    - a) one or more amino acid denaturants,
    - b) imidazole, and
  - c) one or more amino acid denaturants plus imidazole, thereby forming one or more single-stranded nucleic acid molecules; and ii) combining said one or more single-stranded nucleic acid molecules with one or more nucleic acid molecules wherein said one or more nucleic acid molecules are capable of hybridizing to said single-stranded nucleic acid molecules thereby obtaining one or more of said hybridized nucleic acid molecules.
- 2. (previously presented) The method of claim 1, wherein said amino acid denaturants are selected from the group consisting of one or more amino acids, polyamino acids, and combinations thereof; wherein said amino acid denaturants denature or separate double-stranded nucleic acid molecules.

- 3. (previously presented) The method of claim 41, wherein said polyamino acids comprise two or more amino acids.
- 4. (previously presented) The method of claim 41, wherein said amino acid denaturants are selected from the group consisting of glycine, D-alanine, L-alanine, DL-alanine, arginine, glutamine, isoleucine, leucine, methionine, phenylalanine, proline, serine, threonine, tryptophan, tyrosine, and valine.
- 5. (cancelled)
- 6. (previously presented) The method of claim 1, wherein the concentration of said denaturants ranges from about 1mM to about 500 mM.
- 7. (original) The method of claim 6, wherein said concentration ranges from about 5 mM to about 50 mM.
- 8. (original) The method of claim 7, wherein said concentration is about 10 mM.
- 9-40. (cancelled)
- 41. (previously presented) The method of claim 2, wherein said amino acid denaturants are natural or unnatural amino acids.

42-71. (cancelled)

- 72. (new) The method of claim 1, wherein said one or more nucleic acid molecules is haptenylated.
- 73. (new) A method for hybridizing one or more nucleic acid molecules, said method comprising
  - i) contacting one or more haptenylated double-stranded nucleic acid molecules with a denaturant selected from the group consisting of
    - a) one or more amino acid denaturants,
    - b) imidazole, and
  - c) one or more amino acid denaturants plus imidazole,
    thereby forming one or more non-haptenylated single-stranded nucleic acid
    molecules and one or more haptenylated single-stranded nucleic acid molecules;
    and
  - ii) combining said one or more non-haptenylated single-stranded nucleic acid molecules with one or more nucleic acid molecules wherein said one or more nucleic acid molecules are capable of hybridizing to said non-haptenylated single-stranded nucleic acid molecules thereby obtaining one or more of said hybridized nucleic acid molecules.